

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A VoIP system, comprising:
 - a console to provide instructions via a link in the form of messages that include a schedule request message;
 - a control unit coupled to the console via the link; and
 - a first IP-PBX coupled to the control unit with a first link and a second link, the first link including an Ethernet connection for administrative messaging, the second link including an asynchronous connection for status information.
2. (Original) The VoIP system of claim 1, further comprising a second IP-PBX coupled to the control link with a third link and a fourth link, the third link including an Ethernet connection for administrative messaging, the fourth link including an asynchronous connection for status information.
3. (Original) The VoIP system of claim 1, further comprising a UPS coupled to the control unit with a third link, the third link including an asynchronous connection.
4. (Currently amended) A VoIP system, comprising:
 - a console;
 - a control unit coupled to the console, the control unit to send a request message to an Internet Protocol Private Branch Exchange (IP-PBX) based upon a schedule of the message;
 - a first interface to [[an]] the IP-PBX, the first interface coupled to the control unit, the first interface including an Ethernet connection for administrative messaging; and
 - a second interface to [[an]] the IP-PBX, the second interface coupled to the control unit, the second interface including an asynchronous connection for status information.

5. (Currently amended) A VoIP system, comprising:
 - a control unit to send a request message based upon a schedule of the message; and
 - a IP-PBX coupled to the control unit, the control unit including a first Ethernet driver coupled to the IP-PBX.
6. (Original) The VoIP system of claim 5, wherein the control unit further includes a serial driver coupled to the IP-PBX.
7. (Original) The VoIP system of claim 5, wherein the IP-PBX includes a conversion module, the conversion module configured to convert between a first protocol in the IP-PBX and a second protocol in the control unit.
8. (Original) The VoIP system of claim 5, wherein the control unit further includes:
 - a session controller coupled to the first Ethernet driver;
 - a conversion module coupled to the session controller; and
 - a management module coupled to the session controller and the conversion module, the session controller configured to determine whether a protocol in the IP-PBX matches a protocol in the management module, the session controller further configured to couple the first Ethernet driver to the management module through the conversion module, if the protocol in the IP-PBX does not match the protocol in the management module.
9. (Original) The VoIP system of claim 8, wherein the session controller is further configured to couple the first ethernet driver to the management module without using the first conversion module, if the protocol in the IP-PBX does match the protocol in the management module.
10. (Original) The VoIP system of claim 5, wherein the control unit further includes:
 - an interface to a network;
 - a second Ethernet driver coupled to the interface to the network;
 - a filter coupled to the second ethernet, the filter configured to select packets; and

a packet analysis module coupled to the filter, the packet analysis module configured to monitor performance.

11. (Original) The VoIP system of claim 10, the filter configured to select packets based at least one of type, session, origination IP address, and destination IP address.

12. (Original) The VoIP system of claim 10, the packet analysis module configured to monitor at least one of packet loss, jitter and latency.

13. (Currently amended) A VoIP system, comprising:
a console;
a first control unit coupleable to the console; and
a second control unit coupleable via a switch to the console, the console configured to be selectively coupled to one of the first control unit and the second control unit to perform administrative functions.

14. (Currently amended) A VoIP system, comprising:
a console;
a first control unit coupled to the console;
a second control unit coupled to the first control unit; and
a third control unit coupled to the first control unit, the first control unit configured to aggregate performance data from the second and third control units, the console coupled to the third control unit for access to the aggregated performance data, the aggregate performance data including at least one of packet type data, session data, origination data, or Internet Protocol (IP) address data.

15. (Currently amended) A method for monitoring in a VoIP system, comprising:
setting an alert threshold, based upon a Quality of Service (QoS) policy, for the VoIP system, that sets a minimum standard;

measuring a performance parameter based upon historical information for predetermined portions of a network;

determining whether the measured performance parameter exceeds the alert threshold meets the minimum standard as set by the QoS policy;

notifying an administrator if the alert threshold has been exceeded if the minimum standard has not been met; [[and]]

performing active testing if the alert threshold has been exceeded minimum standard has not been met[[.]];

reporting the results of the active testing as the historical information, the historical information including whether the minimal standard for the QoS policy has been met; and continuing to monitor the historical information.

16. (Original) The method of claim 15, wherein the performance parameter is at least one of packet loss, jitter, and latency.

17. (Original) The method of claim 15, wherein notifying includes sending at least one of an email, a page, and a SNMP message.

18. (Original) A method for monitoring in a VoIP system, comprising:
determining a status of an access node to a network;
rebooting an access card if the status of the access node is an error; and
notifying an administrator if the status is one of an error, an alarm, and a loop-back condition.

19. (Original) The method of claim 18, wherein notifying includes sending at least one of an email, a page, and a SNMP message.

20. (Currently amended) A method ~~comprising:~~
for monitoring ~~[[in]]~~ a VoIP system, the VoIP system including a console connected to a control unit, the control unit connected to an Internet Protocol-Private Branch Exchange (IP-PBX) with an ethernet connection and an asynchronous connection, the method: ~~comprising:~~
receiving a delay value from a user;
reading a power status;
determining whether there is a loss of external power based on the power status; and
selectively shutting down at least one resource after an amount of time provided by the delay value if it is determined that there is a loss of power.
21. (Original) The method of claim 20, wherein reading the power status is based on status data transmitted from an uninterruptible power supply.
22. (Original) The method of claim 20, wherein the at least one resource includes an IP-PBX.
23. (Original) The method of claim 20, further comprising:
determining whether a power fault condition is imminent based on the power status;
sending an alert if it is determined that a power fault condition is imminent; and
backing-up data if it is determined that a power fault condition is imminent.
24. (Original) A VoIP system, comprising:
a control unit;
a IP-PBX coupled to the control unit, the IP-PBX having a plurality of ports;
a telephone coupled to one of the plurality of ports; and
an interface to a PSAP updater, the interface coupled to the control unit, the control unit configured to store geographic information for each of the plurality of ports, the control unit further configured to store extension and identification information related to the telephone, the control unit further configured to discover the one of the plurality of ports, the control unit

configured to associate the extension, identification information, and the geographic information for the telephone.

25. (Original) The VoIP system of claim 24, wherein the control unit is further configured to output the associated extension, identification information, and the geographic information for the telephone to the interface to the PSAP updater.

26. (Currently amended) A method comprising:

[[for]] enabling E-9-1-1 in a VoIP network, the VoIP network including a console connected to a control unit, the control unit connected to an Internet Protocol-Private Branch Exchange (IP-PBX) with an ethernet connection and an asynchronous connection;~~comprising~~:

setting geographic information for each of a plurality of ports;

setting identification information for each of a plurality of telephone extensions;

discovering a telephone on one of the plurality of ports; and

resolving the extension, identification information and geographic information for the discovered telephone.

27. (Original) The method of claim 26, further comprising sending the resolved extension, identification information and geographic information to a PSAP updater.

28. (Currently amended) A method comprising:

[[for]] controlling a VoIP network including a console connected to a control unit, the control unit connected to an Internet Protocol-Private Branch Exchange (IP-PBX) with an ethernet connection and an asynchronous connection;~~comprising~~:

monitoring performance data;

monitoring an access node;

reading a power status; and

performing a discovery process.

29. (New) A control unit included within a VoIP network, the control unit comprising:
- a filter to select packets based upon criteria including at least one of the following criteria including type, session, origination Internet Protocol (IP) address, or destination IP address;
 - a packet analysis module operatively connected to the filter to receive input from the filter, the packet analysis module to determine whether monitored packet performance meets a predetermined Quality of Service (QoS) policy;
 - an Uninterruptible Power Supply (UPS) agent to receive performance data for a UPS;
 - a session controller to forward the performance data for the UPS to the UPS agent;
 - a management module operatively connected to the session controller, the packet analysis module and to the UPS agent, the management module to execute commands and to collect data from a console;
 - a conversion module operatively connected to the session controller and the management module, the conversion module to transform a communication protocol used in communications from the management module to a IP-Private Branch Exchange (IP-PBX);
 - at least one ethernet driver operatively connected to at least one of the filter, or the session controller, to receive commands from the IP-PBX; and
 - at least one a serial driver operatively connected to the UPS agent.